

CLAIM AMENDMENT SHEET

What is claimed is:



1. (Original) A self-metering automatic industrial-scale fire fighting nozzle, comprising:
an additive passageway in fluid communication with a fire-fighting liquid conduit of the nozzle, the conduit having a discharge orifice that varies in size with supply pressure of the liquid, at least for part of a flow range of the nozzle; and
structural elements defining a variable opening associated with the additive passageway, the elements structured in combination to automatically vary the opening size in response to variations in size of the discharge orifice.
2. (Original) A self-metering automatic industrial-scale fire fighting nozzle, comprising:
an additive passageway in fluid communication with a fire-fighting liquid conduit of the nozzle, the conduit having a discharge orifice that varies in size with supply pressure of the liquid, at least for part of a flow range of the nozzle; and
a valve associated with the additive passageway, the valve structured to automatically vary in accordance with variations of the discharge orifice size.
3. (Original) A self-metering automatic industrial-scale fire fighting nozzle, comprising:
an additive passageway in fluid communication with a fire-fighting liquid conduit of the nozzle, the conduit having a discharge orifice that varies in size with supply pressure of the liquid, at least for part of a flow range of the nozzle; and
means for variably occluding the additive passageway in conjunction with variations of the discharge orifice size.
4. (Original) A self-metering automatic industrial-scale fire fighting nozzle, comprising:
an additive passageway in fluid communication with a fire-fighting liquid conduit of the nozzle, the conduit having a discharge orifice that varies in size with supply pressure of the liquid, at least for part of a flow range of the nozzle; and
an adjustable opening in the additive passageway calibrated to automatically adjust in response to variations of the discharge orifice size.
5. (Original) The nozzle of claim 1 including a ratio selector having at least two settings and wherein the structural elements vary the opening in response to a selector setting.
6. (Original) The nozzle of claim 2 including a ratio selector having at least two settings and wherein the valve varies the opening in response to a selector setting.
7. (Original) The nozzle of claim 3 including a ratio selector having at least two settings and wherein the means include means for occluding in response to a selector setting.

8. (Original) The nozzle of claim 4 including a ratio selector having at least two settings and wherein the opening is calibrated to adjust in response to a selector setting.
9. (Original) The nozzle of claims 1, 2, 3, 4, 5, 6, 7 or 8 including:
- at least two gap defining elements that relatively adjust to define the discharge orifice of the nozzle; and
 - flow indicator structure that adjusts in tandem with a gap defining element adjustment, the flow indicator structure connected to a visible calibrated indicia of flow.
- 15.10. (Currently Amended) A method, comprising:
- automatically metering a preselected ratio of additive into an automatic (pressure regulating, at least in part) industrial-scale fire fighting nozzle, including adjusting at least one occluding element in an additive passageway in fluid communication with a fire fighting liquid conduit of the nozzle in accordance with a varying fire fighting liquid conduit discharge orifice.
- 16.11. (Currently Amended) A method, comprising:
- automatically metering a preselected ratio of additive into an automatic (pressure regulating, at least in part) industrial-scale fire fighting nozzle, including occluding an additive passageway in fluid communication with a fire fighting liquid conduit of the nozzle in accordance with a varying fire fighting liquid conduit discharge orifice.
17. 12. (Currently Amended) A method, comprising:
- automatically metering a preselected ratio of additive into a self-educting automatic (pressure regulating, at least in part) industrial-scale fire fighting nozzle, including, in a passageway for additive located inside of the nozzle body, valving the passageway in tandem with a varying fire fighting liquid conduit discharge orifice.
18. 13. (Currently Amended) The method of claims ~~15, 16 or 17~~ 10, 11 or 12 that includes selecting between a plurality of additive ratios for the automatic metering.
19. 14. (Currently Amended) The method of claims ~~15, 16 or 17~~ 10, 11 or 12 that includes mechanically linking a visible indication of flow rate of fire fighting liquid through the nozzle with the varying fire fighting liquid conduit discharge orifice.